



# STIC Search Report

**EIC 3700**

## STIC Database Tracking Number

**TO: Patricia Martin  
Location: RND 8a40  
Art Unit: 3700  
Friday, May 27, 2005**

**Case Serial Number: 10/828532**

**From: Terry Solomon  
Location: EIC 3700  
RND 8b31  
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## Search Notes

No current or past litigation found involving US pat. 5975892.

### Sources:

Lexis/Nexis  
Questel-Orbit

199908 (09) 5975892 November 2, 1999

Time of Request: May 27, 2005 02:06 PM EDT

Research Information:

Utility, Design and Plant Patents  
patno=5975892

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5975892

November 2, 1999

Pneumatic flash calciner thermally insulated in feed storage silo

**REISSUE:** November 2, 2001 - Reissue Application filed Ex. Gp.: 3749; Re. S.N. 10/004,151 (O.G. April 22, 2003)  
April 20, 2004 - Reissue Application filed Ex. Gp.: 3742; Re. S.N. 10/828,532 (O.G. September 28, 2004)

**APPL-NO:** 199908 (09)

**FILED-DATE:** November 25, 1998

**GRANTED-DATE:** November 2, 1999

**ASSIGNEE-AFTER-ISSUE:** July 30, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., PNEUMATIC PROCESSING TECHNOLOGIES, INC. 725 W. 700 SOUTH MANTI UTAH 84642, Reel and Frame Number: 13138/0527

**LEGAL-REP:** Durando, Antonio R.

Selected file: PLUSPAT  
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database

\*\* SS 1: Results 1  
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

**Patent Number :**

US5975892 A 19991102 [US5975892]

**Title :**

(A) Pneumatic flash calciner thermally insulated in feed storage silo

**Inventor(s) :**

(A) JONES MICHAEL ANDREW (US)

**Application Nbr :**

US19990898 19981125 [1998US-0199908]

**Priority Details :**

US19990898 19981125 [1998US-0199908]

**Intl Patent Class :**

(A) F27B-015/00

**EPO ECLA Class :**

C04B-002/10

F27B-015/00

**US Patent Class :**

ORIGINAL (O) : 432058000; CROSS-REFERENCE (X) : 432014000 432106000

**Document Type :**

Basic

**Citations :**

US3862294; US4118177; US4483831; US4747773; US4932862; US5132102;

US5174749; US5260041

**Publication Stage :**

(A) United States patent

**Abstract :**

A self-contained calcination plant is enclosed in a feed-storage silo. The plant consists of a vertical reactor, a separation cyclone and a pair of heat exchangers connected by appropriate piping and immersed in the feed material stored in powdery form in the silo. A positive displacement blower creates an air stream that is preheated in one of the heat exchangers and fed in part to a gas burner and in part to a feed pipe at the bottom of the reactor. The feed material is kept in a fluidized state in the silo by air heated in the other heat exchanger and blown upward from the bottom of the storage compartment, from where the material is dropped into the feed pipe through rotary valves prior to injection into the reactor. The feed pipe is connected tangentially to the reactor so as to produce an upward swirling flow around the burner's flame. The fluidized reaction products are passed through a cyclone to separate the calcined oxides from the hot gases, which are then fed serially through the heat exchangers to preheat the process air used for the blower and the storage compartment. The solid product is recovered from the bottom of the cyclone. The entire plant is enclosed in the silo and, during operation, all units are immersed in the fluidized hot feed material that provides excellent heat transfer among all components and a sufficiently uniform temperature in the reactor to produce optimal calcination.

1 / 1 LGST - ©EPO

**Patent Number :**

US5975892 A 19991102 [US5975892]

**Application Number :**

US19990898 19981125 [1998US-0199908]

**Action Taken :**

20020730 US/AS-A  
**ASSIGNMENT**  
OWNER: PNEUMATIC PROCESSING TECHNOLOGIES, INC. 725 W. 700; EFFECTIVE  
DATE: 20020715  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:JONES, MICHAEL  
A.;REEL/FRAME:013138/0527

20030422 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20011102

20040928 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040420

**Update Code :**

2004-47

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**

5,975,892 A 19991102 [US5975892]

**Patent Assignee :**

Jones, Michael Andrew

**Actions :**

20020730 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: JONES, MICHAEL A. DATE SIGNED: 07/15/2002

Assignee: PNEUMATIC PROCESSING TECHNOLOGIES, INC. 725 W. 700 SOUTH MANTI  
UTAH 84642

Reel 013138/Frame 0527

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20021102 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20030422  
REISSUE REQUEST NUMBER: 10/004151  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3749

Reissue Patent Number:

20040420 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040928  
REISSUE REQUEST NUMBER: 10/828532  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3742

Reissue Patent Number:

Session finished: 27 MAY 2005 Time 20:50:29  
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